

'R' = Backbone of most Photines

1, Photine CBUS type:

$X_1 = \text{Aniline}$, $X_2 = \text{Morpholine}$, $X_3 = \text{Aniline}$, $X_4 = \text{Morpholine}$

2, Photine D type:

$X_1 = \text{Aniline}$, $X_2 = \text{Aniline}$, $X_3 = \text{Aniline}$, $X_4 = \text{Aniline}$

3, Photine PAQ type:

$X_1 = \text{Sulphanilic Acid}$, $X_2 = \text{DEA}$, $X_3 = \text{DEA}$, $X_4 = \text{Sulphanilic Acid}$

4, Photine CAQ type:

$X_1 = \text{DEA}$, $X_2 = \text{Aniline}$, $X_3 = \text{DEA}$, $X_4 = \text{Aniline}$

Figure 1

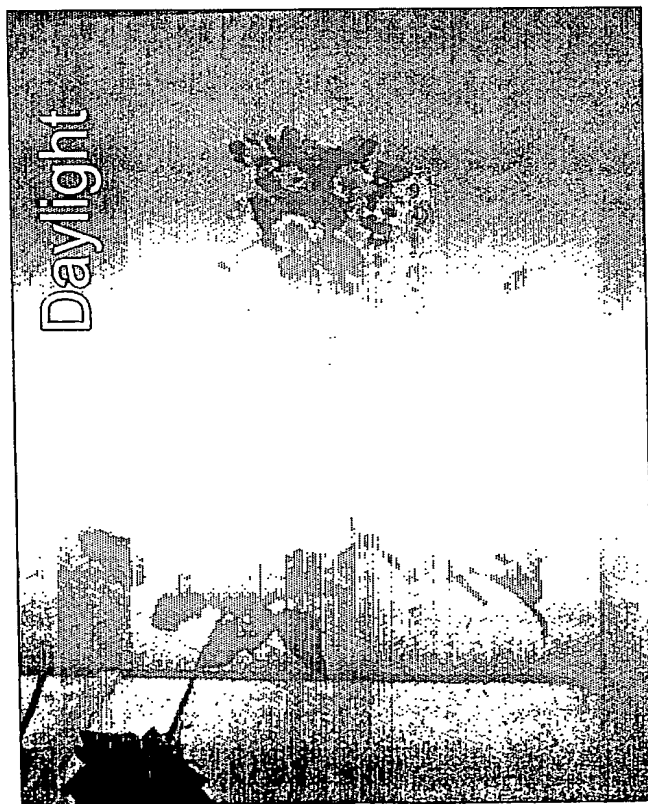
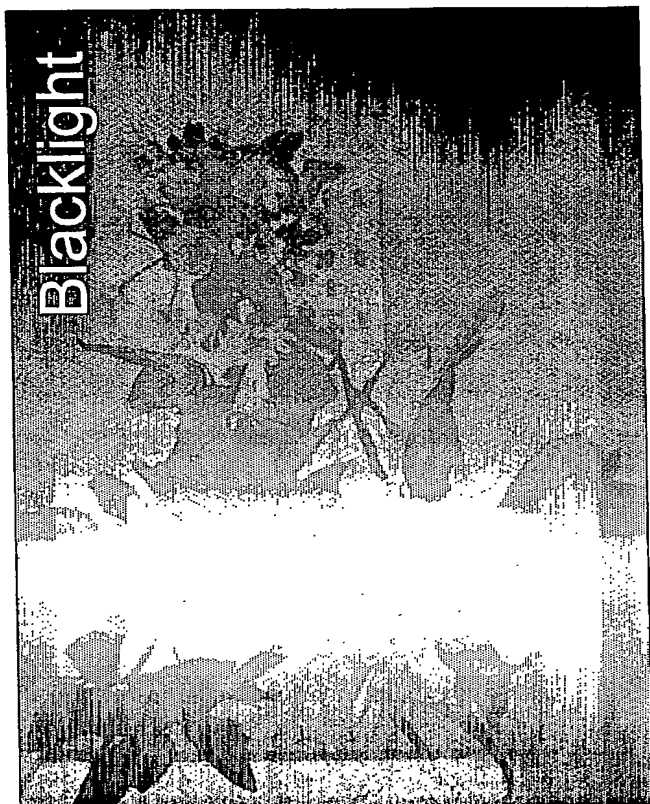


Figure 2

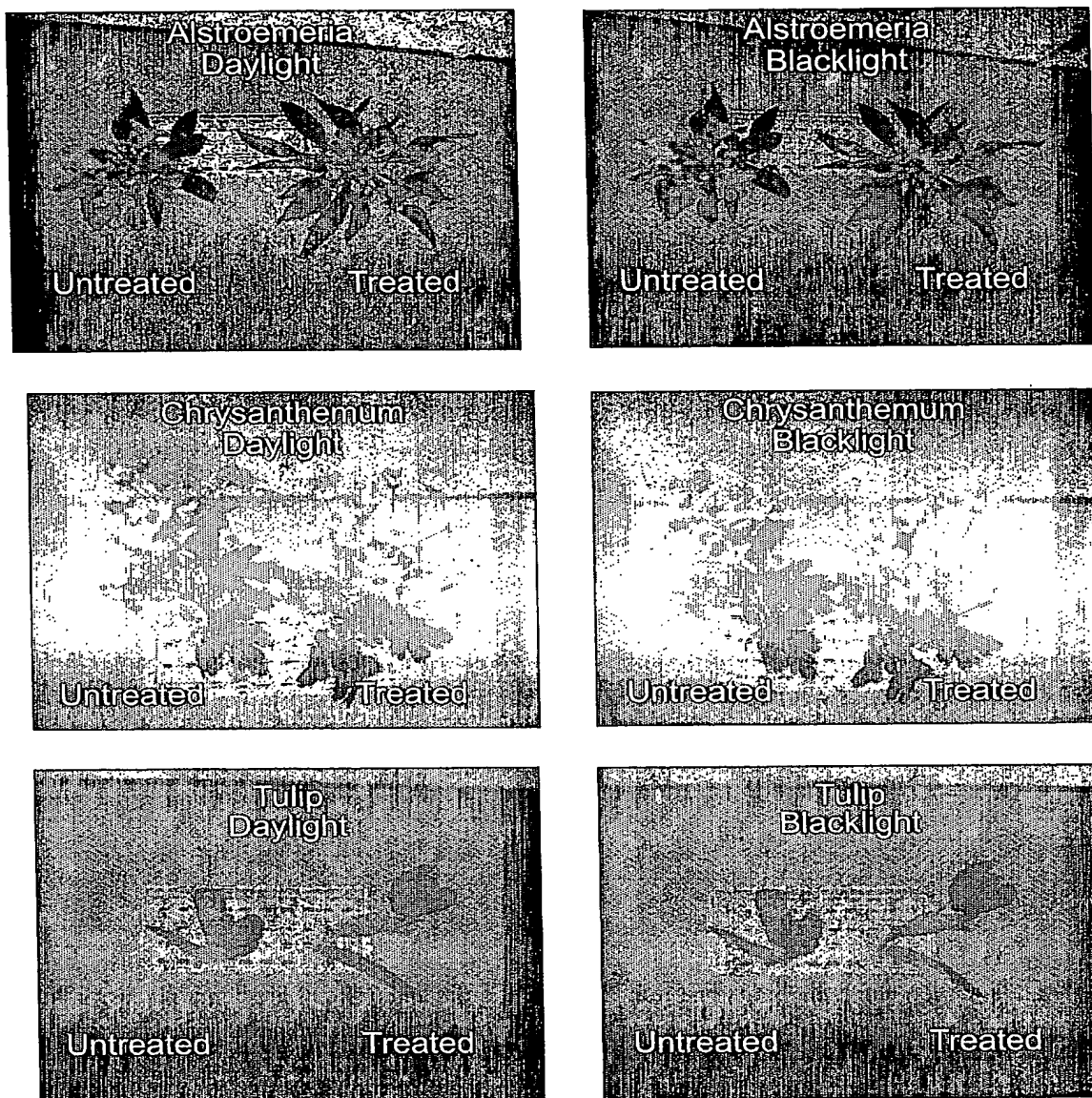


Figure 3A

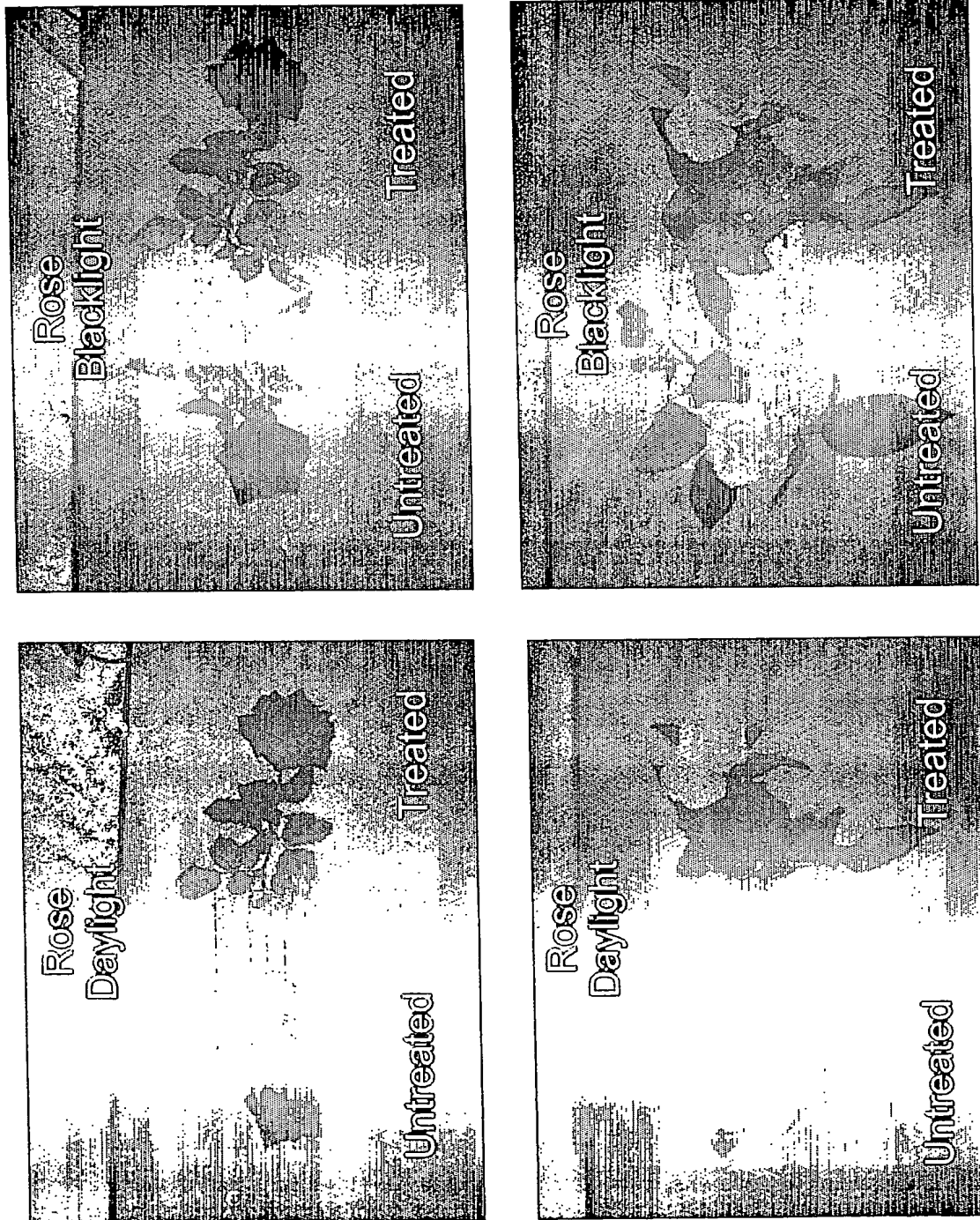


Figure 3B

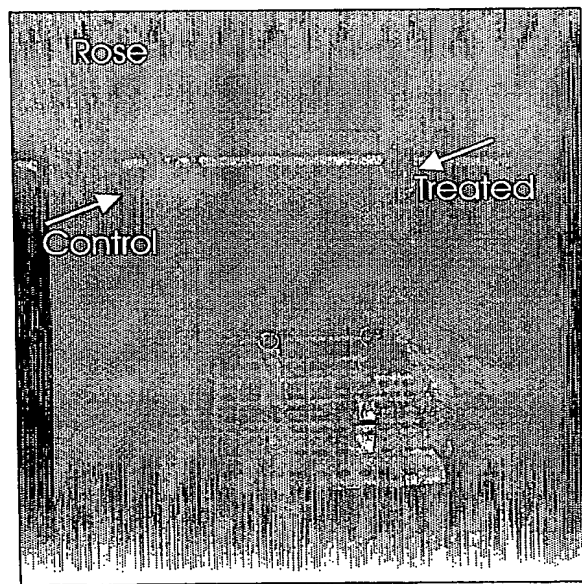
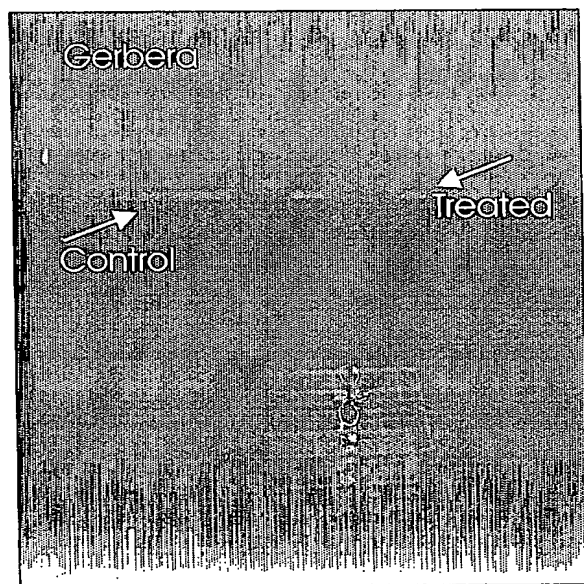
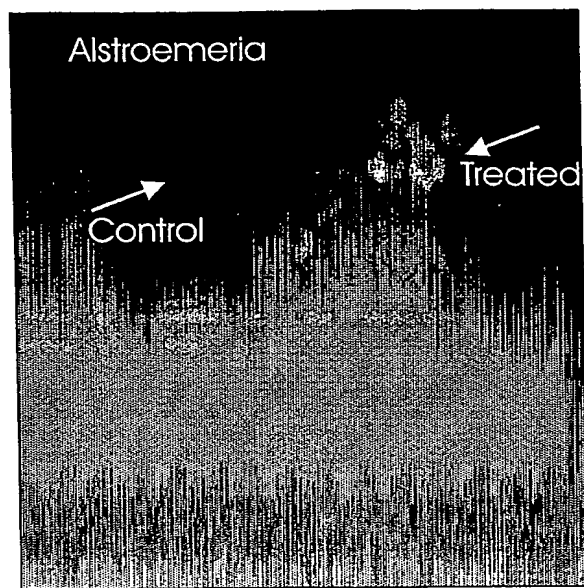
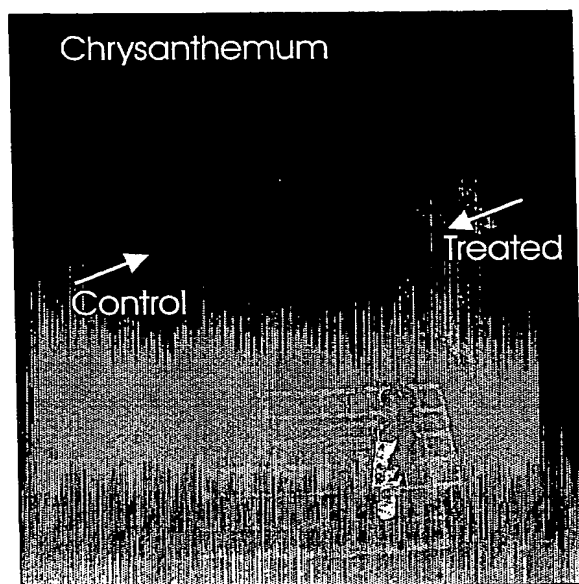


Figure 4

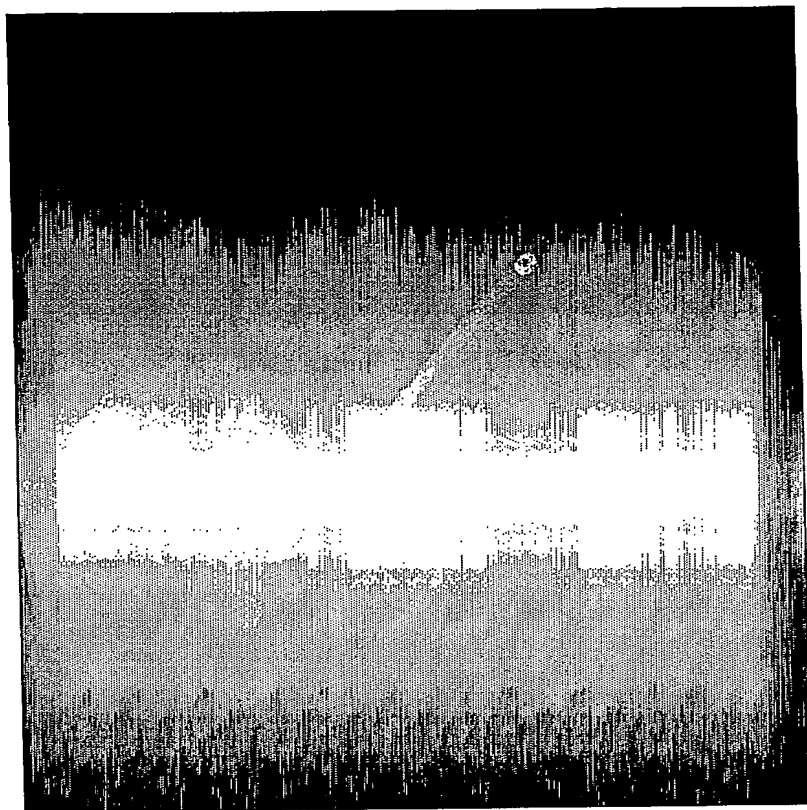


Figure 5

Figure 6

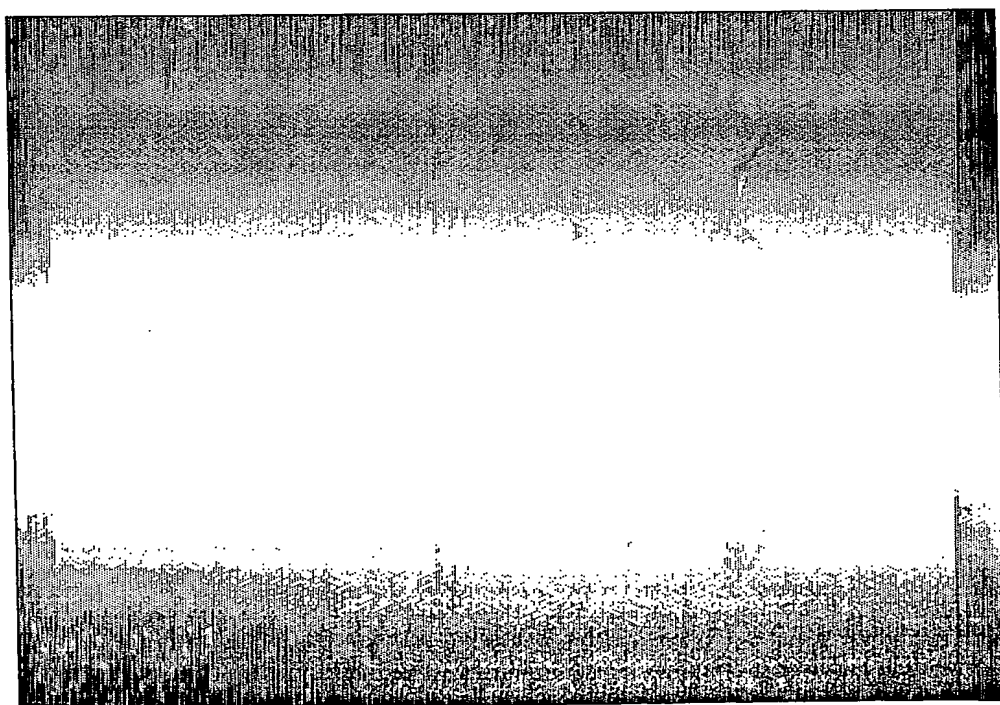
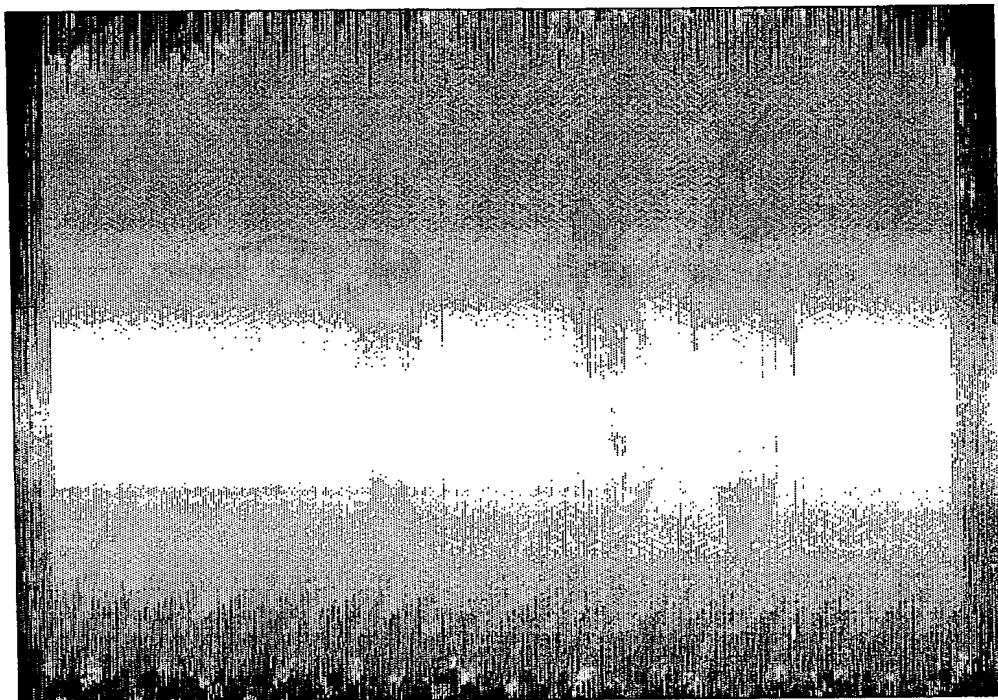


Figure 7

